

H1196

0054599

Recra LabNet - Lionville Laboratory  
PCB ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD B99-042 H1196

DATE RECEIVED: 12/21/00

RFW LOT # :0012L636

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B11496	001	S	00LE1681	12/19/00	12/21/00	12/23/00
B11496	001 MS	S	00LE1681	12/19/00	12/21/00	12/23/00
B11496	001 MSD	S	00LE1681	12/19/00	12/21/00	12/23/00
B11497	002	S	00LE1681	12/19/00	12/21/00	12/23/00

LAB QC:

PBLKLG	MB1	S	00LE1681	N/A	12/21/00	12/23/00
PBLKLG	MB1 BS	S	00LE1681	N/A	12/21/00	12/23/00

1/14/01



RECEIVED  
MAR 28 2001

EDMC



Chemical and Environmental Measurement Information

Recra LabNet Philadelphia  
Analytical Report

Client: TNU HANFORD B99-042  
RFW#: 0012L636  
SDG/SAF#: H1196/B99-042

W.O.#: 10985-001-001-9999-00  
Date Received: 12-21-00


PCB

The set of samples consisted of two (2) soil samples collected on 12-19-00.

The samples and their associated QC samples were extracted on 12-21-00 and analyzed according to Recra OPs based on SW846, 3rd Edition procedures on 12-23-00. The extraction procedure was based on method 3550 and the extracts were analyzed based on method 8082 for Aroclors only.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. The cooler temperature has been recorded on the chain-of-custody.
2. All required holding times for extraction and analysis have been met.
3. The samples and their associated QC samples received a sulfuric acid and sulfur cleanup.
4. The method blank was below the reporting limits for all target compounds.
5. All surrogate recoveries were within acceptance criteria.
6. The blank spike recovery was within acceptance criteria.
7. All matrix spike recoveries were within acceptance criteria.
8. All initial calibrations associated with this data set were within acceptance criteria.
9. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.
10. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.

  
J. Michael Taylor  
VP, Laboratory General Manager  
Lionville Laboratory

pefvr:\group\data\pest\12L-636.pcb

01-05-01  
Date

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 8 pages.

## GLOSSARY OF PESTICIDE/PCB DATA

### DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.

### ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP** = Indicates Spiked Compound.



**GLOSSARY OF PESTICIDE/PCB DATA**

- P**     =     This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D**     =     This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C**     =     This flag applies to a compound that has been confirmed by GC/MS.

RFW #21-21-035/A-03/97



Recra LabNet - Lionville Laboratory

PCBs by GC

Report Date: 01/01/01 15:14

RFW Batch Number: 0012L636

Client: TNU HANFORD B99-042

Work Order: 10985001001 Page: 1

Cust ID:		B11496	B11496	B11496	B11497	PBLKLG	PBLKLG BS
Sample Information	RFW#:	001	001 MS	001 MSD	002	00LE1681-MB1	00LE1681-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Surrogate:	Tetrachloro-m-xylene	112 %	110 %	112 %	110 %	102 %	108 %
	Decachlorobiphenyl	107 %	104 %	106 %	104 %	98 %	101 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl							
Aroclor-1016		33 U	33 U	32 U	33 U	33 U	33 U
Aroclor-1221		66 U	66 U	65 U	65 U	67 U	67 U
Aroclor-1232		33 U	33 U	32 U	33 U	33 U	33 U
Aroclor-1242		33 U	33 U	32 U	33 U	33 U	33 U
Aroclor-1248		33 U	33 U	32 U	33 U	33 U	33 U
Aroclor-1254		33 U	108 %	107 %	33 U	33 U	92 %
Aroclor-1260		33 U	33 U	32 U	33 U	33 U	33 U

01/23/01

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.  
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CLP QC

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

<b>Special Instructions:</b> <span style="font-size: 1.2em;">Saf B99042</span>  <span style="font-size: 1.5em;">Run matrix QC</span>				<b>DATE/REVISIONS:</b> _____ 1. _____ _____ 2. _____ _____ 3. _____ _____ 4. _____ _____ 5. _____ _____ 6. _____				<div style="text-align: right; font-weight: bold; font-size: 0.8em;">RECRA LabNet Use Only</div> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <b>Samples were:</b>            1) Shipped <input checked="" type="checkbox"/> or            Hand Delivered _____             Airbill # <u>SFBKw</u>            2) Ambient or <u>Chilled</u>            3) Received in Good            Condition <u>Y</u> or N            4) Labels Indicate            Properly Preserved <u>Y</u> or N            5) Received Within            Holding Times <u>Y</u> or N         </td> <td style="width: 50%; border: none; vertical-align: top;"> <b>COC Tape was:</b>            1) Present on Outer            Package <u>Y</u> or N            2) Unbroken on Outer            Package <u>Y</u> or N            3) Present on Sample  <u>Y</u> or N            4) Unbroken on            Sample <u>Y</u> or N            COC Record Present            Upon Sample Rec't  <u>Y</u> or N            Cooler            Temp. <u>4</u> °C         </td> </tr> </table>				<b>Samples were:</b> 1) Shipped <input checked="" type="checkbox"/> or Hand Delivered _____  Airbill # <u>SFBKw</u> 2) Ambient or <u>Chilled</u> 3) Received in Good Condition <u>Y</u> or N 4) Labels Indicate Properly Preserved <u>Y</u> or N 5) Received Within Holding Times <u>Y</u> or N	<b>COC Tape was:</b> 1) Present on Outer Package <u>Y</u> or N 2) Unbroken on Outer Package <u>Y</u> or N 3) Present on Sample <u>Y</u> or N 4) Unbroken on Sample <u>Y</u> or N COC Record Present Upon Sample Rec't <u>Y</u> or N Cooler Temp. <u>4</u> °C
<b>Samples were:</b> 1) Shipped <input checked="" type="checkbox"/> or Hand Delivered _____  Airbill # <u>SFBKw</u> 2) Ambient or <u>Chilled</u> 3) Received in Good Condition <u>Y</u> or N 4) Labels Indicate Properly Preserved <u>Y</u> or N 5) Received Within Holding Times <u>Y</u> or N	<b>COC Tape was:</b> 1) Present on Outer Package <u>Y</u> or N 2) Unbroken on Outer Package <u>Y</u> or N 3) Present on Sample <u>Y</u> or N 4) Unbroken on Sample <u>Y</u> or N COC Record Present Upon Sample Rec't <u>Y</u> or N Cooler Temp. <u>4</u> °C												

<b>Relinquished by</b>	<b>Received by</b>	<b>Date</b>	<b>Time</b>				
FrndEx	JBoppel	12/2/00	1030				

<b>Relinquished by</b>	<b>Received by</b>	<b>Date</b>	<b>Time</b>				

COMPOSITE

ORIGINAL  
REWRITTEN

Discrepancies Between  
 Samples Labels and  
 COC Record? Y or N  
 NOTES:  
8115 11013798

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B99-042-103 Page 1 of 1	
Collector Renee Nielson / <i>AS Thomas</i>		Company Contact Mike Stankovich		Telephone No. 531-7620		Project Coordinator TRENT, SJ	
Project Designation 100 H Area - Full Protocol		Sampling Location 100-H-24		SAF No. B99-042		Price Code <i>BL NA</i> Data Turnaround <i>7 Days</i>	
Ice Chest No. <i>1A2</i>		Field Logbook No. EL1500-3		COA <i>R10H24 2600</i>		Method of Shipment <i>Hand deliver - Gout vehicle</i> <i>12-19-00</i> <i>Fed Ex</i> <i>24 Hour</i>	
Shipped To TMA/RECRA		Offsite Property No. <i>HMSR 000291</i>		Bill of Lading/Air Bill No. <i>N/A</i>			
POSSIBLE SAMPLE HAZARDS/REMARKS  PCB's <i>&lt; 500ppm</i> Samples did not originate in radiological controlled area. No total activity associated with sample/samples. <i>BT 12/20/00</i>  Special Handling and/or Storage PCB's				Preservation		Cool 4C	
				Type of Container		aG	
				No. of Container(s)		1	
				Volume		250mL	
SAMPLE ANALYSIS				PCBs - 8062			
Sample No.		Matrix *		Sample Date		Sample Time	
B11496		SOIL		12.19.00		1147 ✓	
B11497		SOIL		12/19/00		1150 ✓	
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			
Relinquished By <i>AS Thomas</i> Date/Time <i>1307</i>		Received By <i>R. Thoren</i> Date/Time <i>1307</i>		Matrix * S=Soil SS=Soil/Screen SO=Soil/Sand S=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other			
Relinquished By <i>AS Thomas</i> Date/Time <i>12/19/00</i>		Received By <i>R. Thoren</i> Date/Time <i>12.19.00</i>					
Relinquished By <i>R. Thoren</i> Date/Time <i>1345</i>		Received By <i>signed in</i> Date/Time <i>1345</i>					
Relinquished By <i>R. Thoren</i> Date/Time <i>12.19.00</i>		Received By <i>R. Thoren</i> Date/Time <i>3728 12.19.00</i>					
Relinquished By <i>Removed from</i> Date/Time <i>0620</i>		Received By <i>R. Thoren</i> Date/Time <i>0620</i>					
Relinquished By <i>R. Thoren</i> Date/Time <i>12.20.00</i>		Received By <i>R. Thoren</i> Date/Time <i>12.20.00</i>					
Relinquished By <i>R. Thoren</i> Date/Time <i>0800</i>		Received By <i>FED EX</i> Date/Time					
Relinquished By <i>Fed Ex</i> Date/Time <i>122100 1030</i>		Received By <i>Thorpel</i> Date/Time <i>122100 1030</i>					
Relinquished By		Received By					
LABORATORY SECTION		Received By		Title		Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time	

Date/Time Received: 12-21-00 / 1030

SDG#: 0012110360

Work Order Number: \_\_\_\_\_

SAF# 399-042

Shipping Container ID: Bucket

Chain of Custody # B99-CH2-103

1. Custody Seals on shipping container intact? Yes ☒ No ☐
2. Custody Seals dated and signed? Yes ☐ No ☒
3. Chain-of-Custody record present? Yes ☒ No ☐
4. Cooler temperature 4°C
5. Vermiculite/packing materials is Wet ☐ Dry ☒
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? Yes ☐ No ☒

8. Samples have:

**— tape**

## hazard labels

**custody seals**

appropriate sample labels

**9. Samples are:**

                     in good condition

leaking

**broken**

**have air bubbles**

10. Were any anomalies identified in sample receipt? Yes ☐ No ☒
11. Description of anomalies (include sample numbers): \_\_\_\_\_

Sample Custodian/Laboratory: Theresa Beera Date: 12-21-00

Telephoned to: \_\_\_\_\_ On \_\_\_\_\_ By \_\_\_\_\_